



NOTES:

1. MARK LINE ON TUBE O.D. PERPENDICULAR TO RUN.
2. CUT HOLES 2.003 ±.001 THRU TUBE WALL, FOUR PLACES AT 90 DEGREES.
3. ALIGN FERRULES USING INSTALLATION TOOL. WELD FERRULES SUCH THAT B-B DIMENSION IS ACHIEVED. REMOVE TOOL.
4. FERRULE FACES MUST BE PARALLEL, CONCENTRIC, AND ARE TO BE MOUNTED ON HORIZONTAL AXIS +/- 5 DEGREES.
5. ROTATE 90° AND REPEAT STEPS 2 THRU 4 FOR OTHER AXIS.
5. AFTER WELDED, ASSEMBLY MUST BE ABLE TO SUPPORT A LOAD OF 35 POUNDS.
6. FINISH (GRIND) WELDS TO SUIT YOUR FINISH.
7. HYDROSTATIC TEST AFTER ASSEMBLY. TO SUIT APPLICATION REQUIREMENTS.
8. 10" CLEARANCE IS REQUIRED FROM EACH FERRULE TO MOUNT SENSOR ASSEMBLIES AND FOR MAINTENANCE.
9. ALL PARTS AND TOOLS SUPPLIED BY OTHER.
10. FOR PATH LENGTH GREATER THAN 8", FABRICATE (USE) PARALLEL FLOW CELL ASSEMBLY. CONTACT McNAB FOR ASSISTANCE.
11. TOL: DIM "A" IS 0.03" (0.8 MM), DIM "B-B" IS 0.015" (0.4 MM).
12. DIMENSIONS PER MCNAB LIGHT PATH PROGRAM CALCULATIONS.
13. FOR MCNAB SUPPLIED FLOW CELL UNIT, OVERALL HEIGHT IS 10.62" (INCH SIZES) OR 500 MM (METRIC SIZES). SEE PART NUMBER.

FLOW CELL UNIT (OPTIONAL)  
 ORDERING PART NUMBER:  
 FC-B-( )-+-B-SA

TUBE SIZE

DIMENSIONS ARE TYPICAL FOR OTHER AXIS

| PC. NO. | QTY | DESCRIPTION   |
|---------|-----|---|
| 3       | 1   | INSTALLATION TOOL: PIPE, TUBE OR BAR 1.850" DIA. LENGTH= TUBE O.D PLUS 6 INCHES.                            |
| 2       | 4   | FERRULE: 2" (50 MM) SANITARY BUTT WELD, O.D.= 2.00", WALL= .065". MAT'L: SS 316L, McNAB P/N: 8A-2204-2-MACH |
| 1       | 1   | TUBE: SIZE AND LENGTH TO SUIT. SPECIFICATION: ASTM A270 OR DIN 11850  |

|           | NOMINAL TUBE SIZE | I.D. REF   | O.D. REF | WALL REF | B REF | B-B   | A     |
|-----------|-------------------|------------|----------|----------|-------|-------|-------|
| IN MM     | 50                | USE 65 MM  |          |          |       |       |       |
|           | 65                | 66         | 70       | 2        | 64.0  | 128   | 29    |
|           | 80                | 81         | 85       | 2        | 71.5  | 143   | 29    |
|           | 100               | 100        | 104      | 2        | 81.0  | 162   | 29    |
|           | 125               | USE 100 MM |          |          |       |       |       |
| IN INCHES | 150               | USE 100 MM |          |          |       |       |       |
|           | 2"                | USE 2-1/2" |          |          |       |       |       |
|           | 2.5"              | 2.37"      | 2.50"    | 0.065"   | 2.34" | 4.68" | 1.09" |
|           | 3"                | 2.87"      | 3.00"    | 0.065"   | 2.59" | 5.18" | 1.09" |
|           | 4"                | USE 3"     |          |          |       |       |       |
|           | 6"                | USE 3"     |          |          |       |       |       |

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FLOW CELL UNIT,  
 FABRICATION

|             |                     |          |
|-------------|---------------------|----------|
| 20 NOV 2000 | APVI-E/L/S          | REV. E   |
| SCALE:      | DWG\MAN\AP-VIE\FIG8 | SHEET OF |